



## arteMURI® 5th CALCE



Mineral thick plaster based on slaked lime.

### Product description and fields of application

5th CALCE is a mineral finish based on seasoned slaked lime and selected mineral aggregates, available in various grain sizes. 5th CALCE is indicated as a plaster-effect finish, with characteristic chromatic nuances, on lime-based plaster-hydraulic binder, premixed and traditional, finished civil, new or old construction. It has excellent breathability and resistance to the formation of mold and bacteria. The inorganic composition and the filling capacity make the product ideal as a finish for the restoration of historic centers and interventions in the field of green building.

The slaked lime (calcium hydroxide), after the application reacts with carbon dioxide in the air giving rise, through a reaction of carbonation, calcium carbonate that binds chemically to the plaster, which is also based on lime. On exterior walls, current environmental pollution conditions do not guarantee adequate product durability and protection; therefore, its use is recommended only on buildings that are not highly exposed or where a mineral finish based on slaked lime is specifically required.

5th CALCE can be tinted with the arteMURI tinting system.

### Advantages

- various grain sizes with plaster effect
- mineral finish
- easy application and processing
- resistant to the formation of mold and bacteria
- excellent breathability
- organic components < 5%.

## 5th CALCE

### Specifications

The wall surfaces, such as mortar plaster based on lime-hydraulic binder, premixed and traditional, finished in civil, can be finished with the mineral plaster 5th CALCE of Fornaci Calce Grigolin, a product based on slaked lime, synthetic resins, silica fillers of various grain sizes and pigments resistant to light.

The consumption of such product to finished job, varies from a minimum of 1,6 kg/m<sup>2</sup> up to a maximum of 3,2 kg/m<sup>2</sup>, according to the thickness and the granulometry used.

### Consumption and packaging

5th CALCE is supplied in 25 kg packages.

When finished, the consumption of this product varies from a minimum of 1.6 kg/m<sup>2</sup> to a maximum of 3.2 kg/m<sup>2</sup>, depending on the thickness and grain size used.

### Conservation Standards

Protect against frost. Store at temperatures between +5°C and +30°C in the original sealed containers. Under these conditions, the shelf life of the stored product is at least one year.

Since the product is mineral in nature, it may thicken slightly during storage, but this does not affect the quality and use of the material. In these cases, mix the product briefly. However, it is advisable to use the product in a short time.

### Media Preparation

New substrates and/or any repairs (patches) must be cured by at least 4 weeks, clean and dry. Old substrates must be consistent, free of salt efflorescence and loose parts, thoroughly cleaned according to the nature and intensity of the dirt deposited on the surfaces to be treated. To level and fill imperfections such as holes, cracks or crevices, first intervene with a suitable product or repair mortar. Clean up any mold or algae and then sanitize the surface with SEI OK restorer.

On surfaces that have already been painted with lime paints, make sure of the conditions: brush and/or scrape the films in the detachment phase, completely remove high layers of non-adherent paints.

Lime-based products must absolutely NOT be applied on cement, gypsum, plasterboard, wood, metal supports and on supports already painted with film-forming paints, as the chemical reaction with the support cannot take place, with consequent lack of adhesion.

### Media treatment

New plasters: apply directly. It is possible to dampen the support with water to slow down the drying process, in the hottest periods. In case of particularly absorbent plasters, apply a coat of F4 SIL silicate fixative.

Plasters with mineral paints (lime or silicates): apply one coat of F4 SIL silicate fixative.

Plasters with synthetic paints (acrylic, siloxanic): NOT SUITABLE.

Cement/concrete/fibrocement: NOT SUITABLE.

New plaster/plasterboard: apply one coat of PRIMER UNI-KO GM.

Gypsum/plasterboard painted with tempera: remove completely, then apply one coat of PRIMER UNI-KO GM.

Gypsum/plasterboard painted with washable products: apply one coat of PRIMER UNI-KO GM.

# 5th CALCE

## Product preparation

The product is ready to use. If necessary, dilute with a little water until the desired consistency is obtained by slowly mixing the product in its container with a mechanical stirrer.

## Application

Spread the product on the surface with a metal spatula, taking care to distribute it evenly. Before the product starts drying on the surface, finish with circular movements using the plastic trowel or the dampened sponge paddle, until the desired result is obtained. In case you use the fine-grained 5TH CALCE 0,7 mm in two coats, or it is necessary to apply an additional layer of product, it is recommended to always wait until the first coat is completely dry (on average after about 16-48 hours depending on weather conditions). In case of application on large surfaces, remember to work with an adequate number of people, always proceeding wet on wet to avoid shading in the areas of recovery.

Collect the material necessary for the execution of the work all from the same batch.

Absolutely avoid the application of different batches on the same surface and finish the wall with a single batch, then resume on the wall at the edge with the next batch. However, due to the mineral nature of the product, the color shade obtained depends strongly on atmospheric conditions, thickness uniformity and substrate absorption: therefore, the same batch could result in different shades.

Wash tools and equipment with water immediately after use.

## Important Warnings

Do not apply with ambient and/or substrate temperature lower than +5°C or higher than +35°C and with relative humidity higher than 75%. Avoid application in presence of superficial condensation, under direct sunlight or strong wind. The adhesion of the product to the substrate is not guaranteed when the application takes place on surfaces that have salt efflorescence or are subject to humidity, so it is necessary a preventive intervention of masonry restoration.

## Special Warnings

Respect the climatic conditions of application indicated above. In unfavorable climatic conditions, there could be phenomena of rapid "carbonation" with the consequent formation of unsightly whitish surface stains of calcium carbonate, particularly evident in the case of medium-dark colors. It is not recommended to apply the product outdoors at low temperatures, high humidity, excessive heat and windy conditions. Since the phenomenon can also occur 8-10 days after application, it is advisable to protect the surfaces for as long as possible.

## Safety instructions

The product is strongly alkaline: use gloves and goggles when handling. Avoid contact with skin and eyes and in case of contact wash immediately with plenty of water. Use the products according to current hygiene and safety regulations. After use, do not dispose of the containers in the environment: let the residues dry and treat them as special waste. For further information please refer to the safety data sheet.

## 5th CALCE

TECHNICAL DATA	PERFORMANCE
Binder type	seasoned slaked lime and binders in water dispersion
Appearance	dense granular/pigmented paste
Specific gravity(UNI EN ISO 2811-1) 25°C±2	1870 ± 20 g/l
Brookfield viscosity(ASTM D2196) 25°C±2	100.000 ± 20.000 cP
Water vapor permeability and classification (UNI EN ISO 7783-2)	V = 338 g/m <sup>2</sup> 24h Class I (high permeability)
Equivalent air layer thickness (UNI EN ISO 7783-2)	Sd = 0,062 m
Vapor Permeability μ	ca. 40
Liquid water permeability and classification (UNI EN 1062-3)	w24 = 0,38 kg/m <sup>2</sup> h <sup>0,5</sup> Class II (medium permeability)
Suitable for facade protection as it complies with the KÜNZLE theory (DIN 18550) where w24 < 0,5 kg/m <sup>2</sup> h <sup>0,5</sup> and Sd<2 m	Sd · w24 = 0,024 kg/m h <sup>0,5</sup>
VOC content (DIR. 2004/42/EC)	Paint for exterior walls of mineral substrate. EU limit values for subcategory c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l of VOCs.
Application	Steel, plastic and/or sponge flask
Overpainting	16-48 hours
Reaction to fire (EN 13501-1)	A2-s1, d0

GRANULOMETRY	LAYERS	CONSUMPTION	RETURN
0,7 mm	two hands	2,6-3,2 kg/m <sup>2</sup>	0,31-0,39 m <sup>2</sup> /kg
1 mm	one hand	1,6-2,0 kg/m <sup>2</sup>	0,5-0,6 m <sup>2</sup> /kg
1,2 mm	one hand	1,8-2,2 kg/m <sup>2</sup>	0,45-0,55 m <sup>2</sup> /kg

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